

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 09192224
PUBLICATION DATE : 29-07-97

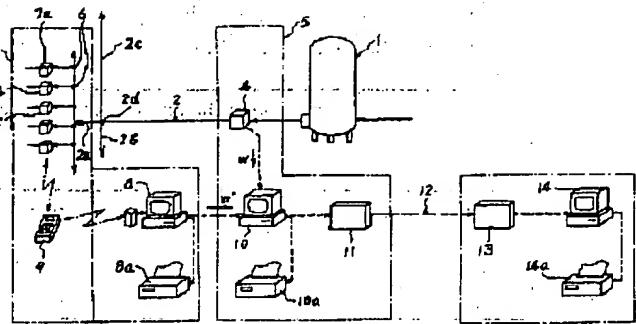
APPLICATION DATE : 12-01-96
APPLICATION NUMBER : 08021952

APPLICANT : DAIDO HOXAN INC;

INVENTOR : MIURA OSAMU;

INT.CL. : A61M 16/00 F17D 3/18 G01F 1/00

TITLE : DEVICE FOR MEASURING
CONSUMPTION OF MEDICAL SUPPLY
GAS FLOW



ABSTRACT : PROBLEM TO BE SOLVED: To normalize transaction of medical gas and to enable gas leaks from piping and the like to be detected through the detection of a difference between the amount of medical gas, such as oxygen, supplied by a gas supplier to a facility which supplies the gas to hospital patients and the amount of the gas consumed by the patients by enabling both of the amounts to be measured quickly and accurately.

SOLUTION: A medical gas which a gas supplier supplies to a gas supply source 1 can be imparted via small gas flowmeters 7a, 7b, 7c to patients in a gas terminal consumption system 3 by a gas supply pipeline 2 having a large gas flowmeter 4 in a gas management system 5, the consumption system 3 comprising a plurality of hospital rooms. A small total flow output W_s , from a terminal small summing computer, to which the amounts of gas consumed by the patients, measured by the small gas flowmeters, is input, and a large flow rate measurement output W_l , from the large gas flowmeter 4, are input to the main large summing computer 10 of the gas management system 5, where both of the outputs are compared to assure that $W_s > W_l$, thus making it possible to check and deal with gas leaks, etc., and to provide proper payment of the gas bill based on the medical gas W consumed by the patients.

COPYRIGHT: (C)1997;JPO